

**CLAIMS:**

What is claimed is:

1. A method for monitoring responses to test questions presented in a data processing system, the method comprising the computer implemented steps of:
  - 5 identifying presentation of the test questions on the data processing system;
  - responsive to the presentation of the test questions on the data processing system, monitoring test question timing data in which the test question timing data represents an elapsed time since an answered question from the test questions has been presented; and
  - 10 generating an alert after the test question timing data exceeds a threshold.
- 15 2. The method of claim 1, wherein the monitoring step is performed by a proctor device or a program on the data processing system.
3. The method of claim 2, wherein the program is an applet.
- 20 4. The method of claim 1 further comprising:
  - billing a client for monitoring the presentation of the test questions.
5. The method of claim 1, wherein the test questions are part of a test and further comprising:
  - 25 storing an identification of a number of test takers for the test; and

billing a client based on the number of test takers for the test.

6. A method of monitoring a test question response time, comprising the steps of:

5 administering a test to a remotely located user of a client device;

receiving test question timing data from the client device, the test question timing data representing an elapsed time used in attempting to answer the test

10 question; and

outputting the test question timing data to a proctor device such that the proctor device may monitor the elapsed time in attempting to answer the test question for the remotely located user.

15 7. The method of claim 6, further comprising billing a test developer for administration of the test to the remotely located user.

8. The method of claim 6, further comprising billing the remotely located user for administration of the test.

20 9. The method of claim 6, further comprising sending an instant message to the client device.

10. The method of claim 6, further comprising receiving an instant message from the client device.

25 11. The method of claim 6, further comprising alerting the remotely located user when the test question timing data exceeds a predetermined threshold.

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12. The method of claim 6, further comprising storing a score for the test in a permanent storage.

13. The method of claim 6, wherein the test is developed by a test developer and wherein the method is implemented  
5 by a test administration system that is operated by a different entity from the test developer.

14. The method of claim 6, further comprising:  
receiving a request for administration of the test to the remotely located user;

10 establishing a session identification for the administration of the test to the remotely located user;  
and

15 correlating the test question timing data to the administration of the test to the remotely located user based on the session identification.

16. The method of claim 14, wherein the session identification includes a proctor device identifier, and wherein outputting the test question timing data to the proctor device is based on the proctor device identifier.

20 16. The method of claim 6, further comprising:  
storing an indicator of a number of test takers for the test; and  
billing a test developer of the test based on the number of test takers for the test.

25 17. The method of claim 6, further comprising:  
monitoring the test question timing data for evidence of greater than expected response time to the

test question, wherein outputting the test question timing data to a proctor device is performed in response to determining that evidence of greater than expected response time to the test question is present.

5    18. The method of claim 16, wherein monitoring the test question timing data for evidence of greater than expected response time to the test question includes comparing previously received test question timing data to currently received test question timing data to  
10 determine if a change in the test question timing data indicates evidence of greater than expected response time to the test question.

15    19. The method of claim 6, further comprising generating an alert profile for the remotely located user for a particular test based on at least one of a data profile associated with the remotely located user, an examination question timing database, and a degree of difficulty associated with a question on the test.

20    20. The method of claim 19, further comprising transmitting an alert to the remotely located user based on the generated alert profile.

21    21. The method of claim 19, further comprising storing a response from the remotely located user to update the alert profile for use in future tests.

25    22. The method of claim 6, further comprising storing of the timing data for the test question to update timing

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data for the remotely located user for use in future tests.

23. An apparatus for monitoring responses to test questions presented in a data processing system, the apparatus comprising:

identifying means for identifying presentation of the test questions on the data processing system;

monitoring means, responsive to the presentation of the test questions on the data processing system, for monitoring test question timing data in which the test question timing data represents an elapsed time since an answered question from the test questions has been presented; and

generating means for generating an alert after the test question timing data exceeds a threshold.

24. The apparatus of claim 23, wherein the apparatus is a proctor device or a program on the data processing system.

25. The apparatus of claim 24, wherein the program is an applet.

26. The apparatus of claim 23 further comprising:

billing means for billing a client for monitoring the presentation of the test questions.

27. The apparatus of claim 23, wherein the test questions are part of a test and further comprising:  
storing means for storing an identification of a number of test takers for the test; and

billing means for billing a client based on the number of test takers for the test.

28. A data processing system comprising:

a bus system;

5 a communications unit connected to the bus system;

a memory connected to the bus system, wherein the memory includes a set of instructions; and

a processing unit connected to the bus system,

wherein the processing unit executes the set of

10 instructions to identify presentation of the test

questions on the data processing system, monitor test question timing data in response to the presentation of the test questions on the data processing system in which the test question timing data represents an elapsed time

15 since an answered question from the test questions has been presented, and generate an alert after the test question timing data exceeds a threshold.

29. An apparatus for monitoring a test question response time, comprising:

20 a controller; and

at least one interface coupled to the controller, wherein the controller administers a test to a remotely located user of a client device via the at least one interface, receives test question timing data from the

25 client device via the at least one interface, the test question timing data representing an elapsed time used in attempting to answer the test question, and outputs the test question timing data to a proctor device via the at least one interface, such that the proctor device may

monitor the elapsed time in attempting to answer the test question for the remotely located user.

30. The apparatus of claim 29, wherein the controller bills a test developer for administration of the test to  
5 the remotely located user.

31. The apparatus of claim 29, wherein the controller bills the remotely located user for administration of the test.

32. The apparatus of claim 29, wherein the controller  
10 sends an instant message to the client device via the at least one interface.

33. The apparatus of claim 29, wherein the controller receives an instant message from the client device via the at least one interface.

15 34. The apparatus of claim 29, wherein the controller alerts the remotely located user when the test question timing data exceeds a predetermined threshold.

35. The apparatus of claim 29, further comprising a storage device, wherein the controller stores a score for  
20 the test in the storage device.

36. The apparatus of claim 29, wherein the test is developed by a test developer and wherein the apparatus is operated by a different entity from the test developer.

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37. The apparatus of claim 29, wherein the controller receives a request for administration of the test to the remotely located user, establishes a session identification for the administration of the test to the 5 remotely located user, and correlates the test question timing data to the administration of the test to the remotely located user based on the session identification.

38. The apparatus of claim 37, wherein the session 10 identification includes a proctor device identifier, and wherein the controller outputs the test question timing data to the proctor device based on the proctor device identifier.

39. The apparatus of claim 29, further comprising a 15 storage device, wherein the controller stores an indicator of a number of test takers for the test in the storage device and bills a test developer of the test based on the number of test takers for the test.

40. The apparatus of claim 29, wherein the controller 20 monitors the test environment data for evidence of greater than expected response time to the test question, and wherein the controller outputs the test question timing data to a proctor device in response to determining that evidence of greater than expected 25 response time to the test question is present.

41. The apparatus of claim 40, wherein the controller monitors the test question timing data for evidence of greater than expected response time to the test question

by comparing previously received test question timing data to currently received test environment data to determine if a change in the test question timing data indicates evidence of greater than expected response time  
5 to the test question.

42. The apparatus of claim 29, further comprising generating an alert profile for the remotely located user for a particular test based on at least one of a data profile associated with the remotely located user, an  
10 examination question timing database, and a degree of difficulty associated with a question on the test.

43. The method of claim 42, further comprising transmitting an alert to the remotely located user based on the generated alert profile.

15 44. The method of claim 42, further comprising storing a response from the remotely located user to update the alert profile for future tests.

20 45. The method of claim 29, further comprising storing of the timing data for the test question to update timing data for the remotely located user for future tests.

46. A computer program product in a computer readable medium for monitoring a test question response time, comprising:

25 first instructions for administering a test to a remotely located user of a client device;

second instructions for receiving test question timing data from the client device, the test question

timing data representing an elapsed time used in attempting to answer the test question; and

third instructions for outputting the test question timing data to a proctor device such that the proctor device may monitor the elapsed time in attempting to answer the test question for the remotely located user.

47. A computer program product in a computer readable medium for use in monitoring responses to test questions presented in a data processing system, the computer program product comprising:

first instructions for identifying presentation of the test questions on the data processing system;

second instructions, responsive to the presentation of the test questions on the data processing system, for monitoring test question timing data in which the test question timing data represents an elapsed time since an answered question from the test questions has been presented; and

third instructions for generating an alert after the test question timing data exceeds a threshold.

48. The computer program product of claim 47, wherein the second instructions are located in a proctor device or a program on the data processing system.

49. The computer program product of claim 47 further comprising:

fourth instructions for billing a client for monitoring the presentation of the test questions.

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50. The computer program product of claim 47, wherein  
the test questions are part of a test and further  
comprising:

fourth instructions for storing an identification of  
5 a number of test takers for the test; and

fifth instructions for billing a client based on the  
number of test takers for the test.